

Quarter to Semester Course Conversion Table Template

COMPUTER SCIENCE

Quarter Course				Quarters Offered AY15-16				Semester Course				Semesters Offered AY16-17			Pre-Requisites & Co-Requisites
				Fall	Winter	Spring	Summer					Fall	Spring	Summer	
Subject	Cat. No.	Title	Units					Subject	Cat. No.	Title	Units				
CS	101	Introduction to Higher Education for Computer Science Ma	2	✓	✓	✓		CS	1010	Introduction to Higher Education for Com	3	✓	✓		-
CS	190	BASIC Programming	2		✓			CS	1090	BASIC Programming	2		✓		One year of high school algebra.
CS	160	Introduction to Computers	3			✓		CS	1200	Information and Technology Literacy	3	✓	✓		Computer literacy
CS	120	Introduction to Web Site Development	3	✓	✓	✓		CS	1220	Introduction to Web Site Development	3	✓	✓		Computer literacy
CS	122	Using Relational Databases and SQL	3	✓	✓	✓		CS	1222	Introduction to Relational Databases	3	✓	✓		Computer literacy
CS	242	C Programming	4	✓		✓		CS	1550	Fundamentals for Computer Graphics	3		✓		GE Mathematics Requirement
CS	290	Introduction to FORTRAN Programming	2		✓			CS	2010	Computer Programming Fundamentals	3	✓	✓		Computer literacy
CS	201	Introduction to Programming	5	✓	✓	✓		none	none	content equivalent to CS2010	none				
CS	202	Introduction to Object Oriented Programming	5	✓	✓	✓		CS	2011	Introduction to Programming I	3	✓	✓		MATH1040 or consent of the instructor
CS	203	Programming with Data Structures	5	✓	✓	✓		CS	2012	Introduction to Programming II	3	✓	✓		CS 2011, recommended: MATH 2110.
CS	245	Introduction to Computer Organization, Operating System	3	✓		✓		CS	2013	Programming with Data Structures	3	✓	✓		CS 2012, recommended: MATH 2120.
								CS	2148	Discrete Structures	3	✓	✓		CS 2012, MATH2120.
								CS	2445	Introduction to Computer Systems	3	✓	✓		CS2011
								CS	2540	Special Topics in Computer Science	1-3	✓	✓		Instructor consent
								CS	3034	Widely-used programming languages	3		✓		CS2013, CS2148; Co-requisite: CS3112.
CS	332F	Functional Programming	2,2,2	✓				CS	3035	Programming Language Paradigms	3	✓			CS2013, CS2148; Co-requisite: CS3112.
CS	332L	Logic Programming	2,2,2		✓			none	none	content included in CS3035	none				
CS	332C	C++ Programming	2,2,2			✓		none	none	content included in CS3035	none				
CS	312	Data Structures and Algorithms	4	✓		✓		CS	3112	Analysis of Algorithms	3	✓	✓		CS2013, CS2148
CS	386	Introduction to Automata Theory	4	✓		✓		CS	3186	Introduction to Automata Theory	3	✓	✓		CS2013, CS2148
CS	320	Web and Internet Programming	3	✓	✓	✓		CS	3220	Web and Internet Programming	3	✓	✓		CS2013
CS	337	Software Design	3	✓	✓	✓		CS	3337	Software Engineering	3	✓			CS2013
CS	437	Software Engineering	5		✓			none	none	content included in CS3337	none				
								CS	3550	Game Development for Graphic Commun	3	✓			CS1550
								CS	3555	Mobile Development for Graphic Commu	3		✓		CS1550
								CS	3660	Complex Social and Economic Systems	3	✓	✓		CS2148; corequisite: CS3112
CS	301	Computer Ethics and the Societal Impact of Computing	2		✓			CS	3801	Societal and Ethical issues in Computing	3		✓		CS2013
CS	398	Cooperative Education	1-4	✓	✓	✓	✓	CS	3890	Cooperative Education	1-3	✓	✓	✓	-
CS	370	Parallel and Distributed Programming	4		✓			CS	4075	Concurrent and Distributed Programming	3		✓		CS3112, CS3035
								CS	4112	Competitive Programming	3	✓			CS3112
CS	488	Compilers	4			✓		CS	4188	Compilers	3		✓		CS3035, CS3112, 3186.
								CS	4220	Current Trends in Web Design and Develo	3		✓		CS1222 and CS 3112
CS	422	Principles of Data Base Systems	4	✓		✓		CS	4222	Principles of Data Base Systems	3	✓			CS 3112 and CS 3220.
CS	440	Introduction to Operating Systems	4		✓			CS	4440	Introduction to Operating Systems	3		✓		CS2013
CS	470	Computer Networking Protocols	4	✓				CS	4470	Computer Networking Protocols	3	✓			CS3112
CS	447	Computer Networks Configuration and Management	4		✓			CS	4471	Computer Networks Configuration and M	3		✓		CS4440
CS	454	Special Topics in Computer Science	1-4	✓	✓	✓	✓	CS	4540	Special Topics in Computer Science	1-3	✓	✓	✓	Instructor consent
CS	450	Foundations of Computer Graphics	4			✓		CS	4550	Computer Graphics	3	✓	✓		CS3112, MATH2550
CS	451	Multimedia Software Systems	4	✓				CS	4551	Multimedia Software Systems	3		✓		CS3112
CS								CS	4555	Introduction to 3D Computer Game Progr	3	✓			CS3112
CS								CS	4556	Multiplayer Online Game Design and Deve	3		✓		CS3112 and CS3220
CS								CS	4635	Modeling and Simulation	3	✓			CS3112 and CS3660
CS	460	Artificial Intelligence	4	✓				CS	4660	Artificial Intelligence	3	✓			CS3112
CS	461	Machine Learning	4		✓			CS	4661	Introduction to Data Science	3		✓		CS3112 and CS3660
CS	480	Cryptography and Information Security	4		✓			CS	4780	Cryptography and Information Security	3	✓			CS3112

CS	496A	Software Design Laboratory	2	✓					CS	4961	Software Design Laboratory I, II	2	✓				WPE; Min. C grade in CS 3112, CS3220, CS3035, CS3337, and CS3186.
CS	496B	Software Design Laboratory	2		✓				CS	4962	Software Design Laboratory I, II	2		✓			Pre/Coreq: CS3660, CS3801, EE4440.
CS	496C	Software Design Laboratory	2			✓			none	none	content included in CS4962	none					CS4961
CS	490	Computer Science Recapitulation	2				✓		CS	4963	Computer Science Recapitulation	2		✓			MATH2550, PHYS2120;
CS	499	Undergraduate Directed Study	1-4	✓	✓	✓	✓		CS	4990	Undergraduate Directed Study	1-3	✓	✓	✓		Pre/Corequisite: CS4962
CS	512	Design and Analysis of Algorithms	4	✓		✓			CS	5035	Topics in Functional Programming	3		✓			Consent of instructor
CS	586	Theory of Computing	4	✓					CS	5112	Design and Analysis of Algorithms	3	✓				CS 3112, CS 3035 and G2 standing
CS	588	Languages and Translators	4	✓					CS	5186	Theory of Computing	3	✓				CS 3220 and G2 standing
CS	520	Web Programming	4	✓		✓			CS	5188	Languages and Translators	3	✓				CS 3186
CS	537	Advanced Software Engineering	4		✓		✓		CS	5220	Advanced Topics in Web Programming	3		✓			CS 4188
CS	590	Advanced Software Architecture	4			✓			CS	5337	Advanced Software Engineering	3	✓				CS 3120 and G2 standing
CS	540	Advanced Topics in Operating Systems	4		✓				CS	5390	Advanced Software Architecture	3		✓			CS 3337 and G2 standing
CS	570	Advanced Computer Networks	4		✓				CS	5440	Advanced Topics in Operating Systems	3			✓		G2 standing
CS	550	Advanced Computer Graphics	4			✓			CS	5440	Advanced Topics in Operating Systems	3			✓		CS 4440 and G2 standing
CS	560	Advanced Topics in Artificial Intelligence	4	✓					CS	5470	Advanced Computer Networks	3	✓				CS 4470 and G2 standing
CS	580	Advanced Information Security	4			✓			CS	5540	Graduate Topics in Computer Science	3	✓	✓			Instructor consent
CS	581	Computer and Network Security	4				✓		CS	5550	Advanced Computer Graphics	3	✓				CS 4550 and G2 standing
CS	575	Human Issues in Computing	4		✓				CS	5660	Advanced Topics in Artificial Intelligence	3	✓				CS 4660 and G2 standing
CS	596	Comprehensive Exam	0						CS	5661	Topics in Data Science	3		✓			CS 4661 and G2 standing
CS	598	Graduate Directed Study	1-4	✓	✓	✓			CS	5780	Advanced Information Security	3		✓			CS 4780 and G2 standing
CS	599A	Thesis or Project	3	✓	✓				CS	5781	Computer and Network Security	3			✓		CS4470 or CS4471 and G2 standing
CS	599B	Thesis or Project	2	✓	✓				CS	5875	Human Issues in Computing	3		✓			CS 3112 and G2 standing
CS	340	Assembly Language and Systems Programming	4						CS	5960	Comprehensive Exam	0	✓	✓			Consent of instructor
CS	342	Object Oriented Programming Using C++	4						CS	5980	Graduate Directed Study	1-3	✓	✓	✓		CS 3112 and G2 standing
CS	345	UNIX and Shell Programming	4						CS	5991	Project Design and Research Methodology	3	✓				G2 standing
CS	486	Computability and Intractability	4						CS	5992	Thesis or Project	1		✓			CS5991
CS	522	Advanced Database Systems	4						none	none	Course Deleted	none					
CS	565	Reliable Computing	4						none	none	Course Deleted	none					
CS	594	Graduate Seminar	4						none	none	Course Deleted	none					

